

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).
2. (Canceled).
3. (Currently Amended) A hinge according to claim 2 21 wherein the conductor is an individual stranded wire.
4. (Currently Amended) A hinge according to claim 2 21 wherein the conductor is within a ribbon-like wire.
5. (Currently Amended) A hinge according to claim 2 21 and further comprising connectors at the ends of the conductor, with the connectors being located behind the pivot members.
6. (Currently Amended) A hinge according to claim 2 20 wherein the first and second pivot members have meshing gear segments which obscure the region of the interior of the cap through which the conductor extends.
7. (Currently Amended) A hinge according to claim 6 20 wherein each pivot member includes a face plate and a backing plate; wherein the gear segments for the pivot members are on the face plate; and wherein the conductor passes between the face and backing plates for each pivot member.
8. (Original) A hinge according to claim 7 wherein the face plate of the first pivot member is flush with the first hinge leaf and the face plate of the second hinge member is flush with the second leaf.

9. (Original) A hinge according to claim 6 wherein the gear segments on the first and second pivot members align with the gear segments on the first and second leaves, but are separated from the gear segments of the leaves by pockets, and wherein a bearing block occupies the pockets, the block extending across the ends of the gear segments at the pockets to prevent the hinge leaves from shifting longitudinally with respect to each other.

10. (Currently Amended) A hinge comprising:

a first leaf having a plate and a gear segment along one side of the plate and also having a cutout in the plate and gear segment, with the cutout interrupting the gear segment;

a second leaf having a plate and a gear segment and also having a cutout in its plate and gear segment, with the cutout interrupting its gear segment, the gear segment of the second leaf meshing the gear segment of the first leaf; the cutout in the second leaf along the gear segment of the second leaf opening toward the cutout in the first leaf along the gear segment in the first leaf;

a cap extended over the gear segments of the first and second leaves to maintain the gear segments meshed, while still allowing one leaf to pivot relative to the other leaf, the cap having a channel-like interior;

a first pivot member in the cutout of the first leaf;

a second pivot member in the cutout of the second leaf, the second member cooperating together with the first member to obscure obscuring the interior of the cap in the region of the cutouts in the leaves; and

an electrical conductor attached to the first and second pivot members and between the pivot members extending though interior of the cap in the region of that interior which is obscured by the cooperating first and second pivot members[.];

the first and second pivot members and the conductor being removable from the cutouts in the leaves without disassembling the hinge.

11. (Original) A hinge according to claim 10 wherein the first and second pivot members have meshing gear segments which align with the meshing gear segments of the leaves, and the meshing gear segments of the pivot members obscure the interior of the cap and the conductor which extends through that interior.

12. (Original) A hinge according to claim 11 wherein the conductor is within a ribbon which forms a loop in the interior the cap.

13. (Original) A hinge according to claim 11 wherein the conductor is one of several stranded wires.

14. (Currently Amended) A hinge according to claim 11 wherein each pivot member has a face plate on which the gear segment for the member is located and a backing plate ~~behind~~ along the face plate; and wherein the conductor extends between the face and backing plates of each pivot member.

15. (Original) A hinge according to claim 11 wherein the gear segments on the pivot members are spaced from the gear segments on the leaves to form a pocket; and further comprising a bearing block in the pocket.

16. (Currently Amended) In combination with a door frame having a hinge jamb and a door, a gear hinge for supporting the door on the door frame, said gear hinge comprising:

a jamb leaf mounted on the hinge jamb and having a gear segment along one of its sides and also a cutout and a pocket, both of which interrupt the gear segment;

a door leaf attached to the door and having a gear segment and a cutout and pocket, both of which interrupt the gear segment, the gear segment of the second leaf meshing with the gear segment of the first leaf, the cutout of the second leaf opening toward the cutout of the first leaf, the pocket of the second leaf opening toward the pocket of the first leaf;

a cap extended over the meshed gear segments to prevent the leaves from separating while enabling the hinge leaf to pivot on the jamb leaf;

a bearing block in the pockets to prevent the door leaf from moving longitudinally on the jamb leaf;

a first pivot member in the cutout of the jamb leaf and having a gear segment that aligns with the gear segment of the jamb leaf;

a second pivot member in the cutout of the door leaf and configured to complement the first pivot member such that having a gear segment that aligns with the gear segment of the second leaf and meshes with the gear segment of the first pivot member to obscure and render inaccessible the region of the cap behind the pivot member members is obscured and inaccessible; and

an electrical conductor attached to the first and second pivot members and extending through the interior of the cap where it is obscured by the cap and by the ~~complimentary~~ pivot members.

17. (Original) The combination according claim 16 wherein the first pivot member is secured to the hinge jamb and the second pivot member is secured to the door.

18. (Canceled).

19. (Currently Amended) A hinge according to claim 16 wherein the ends of the meshing gear segments on the leaves are spaced from the ends of the meshing gear segments on the pivot members to form the pockets along the gear segments of the leaves and further comprising a bearing block in the pockets.

20. (New) A hinge comprising:
a first leaf having a gear segment and a cutout that opens out of the gear segment;
a second leaf having a gear segment that meshes with the gear segment of the first leaf and a cutout that opens out of its gear segment toward the cutout in the first leaf;
a cap fitted over the gear segments to prevent the gear segments from separating and having an interior;
a first pivot member mounted in the cutout of the first leaf and having a gear segment;

a second pivot member in the cutout of the second leaf and having a gear segment that meshes with the gear segment of the first pivot member to obscure a region of the interior of the cap; and

a conductor extending from the first pivot member to the second pivot member through the region of the interior of the cap that is obscured by the meshing gear segments of the first and second pivot members.

21. (New) A hinge comprising:

a first leaf having a gear segment that is interrupted;
a second leaf having a gear segment that meshes with the gear segment of the first leaf and is interrupted opposite the location where the gear segment of the first leaf is interrupted;

a cap extended over the gear segments of the first and second leaves to maintain the gear segments meshed, while still allowing one leaf to pivot relative to the other leaf, the cap having a channel-like interior; and

a conductor assembly at the location where the gear segments of the hinge leaves are interrupted, the conductor assembly comprising:

a first pivot member mounted in a fixed position with respect to the first hinge leaf where the gear segment of the first hinge leaf is interrupted;

a second pivot member mounted in a fixed position with respect to the second leaf at the location where the gear segment of the second leaf is interrupted;

an electrical conductor extended between the members and through the channel-like interior of the cap;

the first and second pivot members being configured to obscure and render inaccessible the electrical conductor where it passes through the interior of the cap;

the conductor assembly being separable from the hinge leaves without withdrawing the cap from the hinge leaves.

22. (New) A hinge according to claim 21 wherein the gear segments of the hinge leaves are interrupted by cutouts in the hinge leaves and the pivot members are in the cutouts.